

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A device for measuring ~~[[the]]~~ a clearance ~~[[J]]~~ between ~~[[the]]~~ tips ~~[(3)]~~ of ~~[[the]]~~ blades ~~[(2)]~~ of a ring of blades and ~~[[the]]~~ an interior wall ~~[(4)]~~ of ~~[[the]]~~ a casing ~~[(5)]~~ surrounding said ring of blades in a turbomachine, ~~characterized in that it comprises~~ comprising:

a probe ~~[(2)]~~ which can be mounted radially on the casing ~~[(5)]~~ and at least one end of which is made of a material that can be abraded by the tips ~~[(3)]~~ of ~~[[the]]~~ blades ~~[(2)]~~ as they rotate~~[[,]]~~; and

a printed circuit ~~[(12)]~~ arranged in ~~[[the]]~~ a mid-plane of said probe, ~~(7) which contains the~~ said probe containing an axis of rotation ~~[[X]]~~ of said ring of blades,

wherein ~~[[this]]~~ the printed circuit ~~(12) comprising~~ comprises a number plurality of adjacent U-shaped electrical circuits ~~(20a to 20e) the~~ having bases ~~(22a to 22e) of~~ which are arranged in a probe end likely to be abraded by the ~~[[blade]]~~ tips ~~[(3)]~~ of blades and lie at different depths ~~(za to ze)~~ from a reference level ~~[(24)]~~ defining the interior wall ~~[(4)]~~ of ~~[[the]]~~ casing ~~[(5)]~~, and means ~~[(9)]~~ for recognizing ~~[[the]]~~ which U-shaped electrical circuits ~~[[which]]~~ have been broken by abrasion and ~~[[the]]~~ which U-shaped electrical circuits ~~[[which]]~~ are intact.

Claim 2 (currently amended): The device as claimed in claim 1, ~~characterized in that~~ wherein two adjacent U-shaped electrical circuits have a common branch.

Claim 3 (currently amended): The device as claimed in claim 2, ~~characterized in that~~ wherein the depths ~~(za to ze)~~ of the bases ~~(22a to 22e)~~ increase by a predetermined step between ~~[[the]]~~ a shortest lateral U-shaped electrical circuit ~~[(20a)]~~ and ~~[[the]]~~ a longest lateral U-shaped electrical circuit ~~[(20e)]~~.

Claim 4 (currently amended): The device as claimed in claim 3, ~~characterized in that~~ wherein ~~[[the]]~~ an outer branch ~~[[(21a)]]~~ of the shortest lateral U-shaped electrical circuit ~~[[(20a)]]~~ is connected to a first electrical terminal ~~[[(16a)]]~~, and the other branches of the U-shaped electrical circuits are connected to a common second electrical terminal ~~[[(16b)]]~~ via a respective one of a plurality resistor (R) ~~of a set of resistors~~.

Claim 5 (currently amended): The device as claimed in claim 4, ~~characterized in that~~ wherein the plurality of resistors ~~(R) of the set all~~ have practically the same resistance.

Claim 6 (currently amended) The device as claimed in either of claims 4 and 5, ~~characterized in that~~ wherein said terminals ~~(16a, 16b)~~ are connected to an electrical circuit external to the probe which comprises means ~~[[(9)]]~~ for measuring ~~[[the]]~~ an equivalent impedance of the resistors of the intact circuits.